

REV. 3

# 1. Description

The PRO and PRO-VC series speaker selectors are highly efficient dual-source, impedance-matching selectors. These high-quality speaker selectors are designed for use with either 4 Ohm or 8 Ohm amplifiers and 4 Ohm to 8 Ohm speakers. In addition to speaker selection, the PRO-VC units include a volume control on the number 1 pair of speakers.

The PRO and PRO-VC speaker selectors are equipped with a low-frequency protection circuit to reduce subsonic signals. This allows high power operation without amplifier shutdown. The PRO and PRO-VC units employ audiophile-grade impedance matching auto-formers to maintain a safe operating load at the amplifier while distributing maximum power through the system. Autoformers are very efficient because of the small loss incurred as a result of heat dissipation. Both series are equipped with a back panel rotary switch, which is used to set the appropriate impedance based on the number of pairs of speakers connected. This switch selects the proper taps of the autoformers, allowing all of the amplifier's power to be delivered to the speakers.

The PRO and PRO-VC speaker selectors can be connected to one or two amplifiers. A front panel button allows switching between the two amplifiers for all speakers connected to the unit.

### 2. Connections

The PRO and PRO-VC series have removable modular snap connectors that provide color-coded wire terminations without the need for set-screws. Strip about 3/8" of insulation from the ends of all wires to be connected. If necessary, twist the exposed conductor to insure that no loose strands exist. Remove the AMP A connector by firmly pulling it out of its 4-pole connector. Lift the wire locking lever on connector. Insert the wires from amplifier A output, being careful to observe the polarity, then lower the lever with a "snap." In the same way, connect the amplifier B output to the AMP B connector. Follow the same procedure to connect each pair of speakers to the appropriate SPEAKER connector, observing proper channel and polarity. If external volume controls are used, connect speaker wire from the appropriate speaker connector on the PRO/PRO-VC to the volume control input. Speaker connections can support multiple speaker pairs wired in parallel or series, provided their combined impedance is a minimum of 4 ohms.

## 3. Operation

To ensure safe operation of the amplifier, an impedance level must first be selected using the rotary switch labeled SPEAKER PAIRS located on the rear of the unit. This switch should be set to the total number of speaker pairs being connected to the unit. Set the switch based on the following conditions:

- If the amplifier and the speakers are both 4 ohms, set the rotary switch to the number of pairs of speakers connected to the PRO/PRO-VC.
- If the amplifier and the speakers are both 8 ohms, set the rotary switch to the number of pairs of speakers connected to the PRO/PRO-VC.
- If the amplifier is 8 ohms and the speakers are 4 ohms, set the rotary switch to TWICE the number of pairs of speakers connected to the PRO/PRO-VC.
- If the amplifier is 4 ohms and the speakers are 8 ohms, set the rotary switch to HALF the number of pairs of speakers connected to the PRO/PRO-VC.

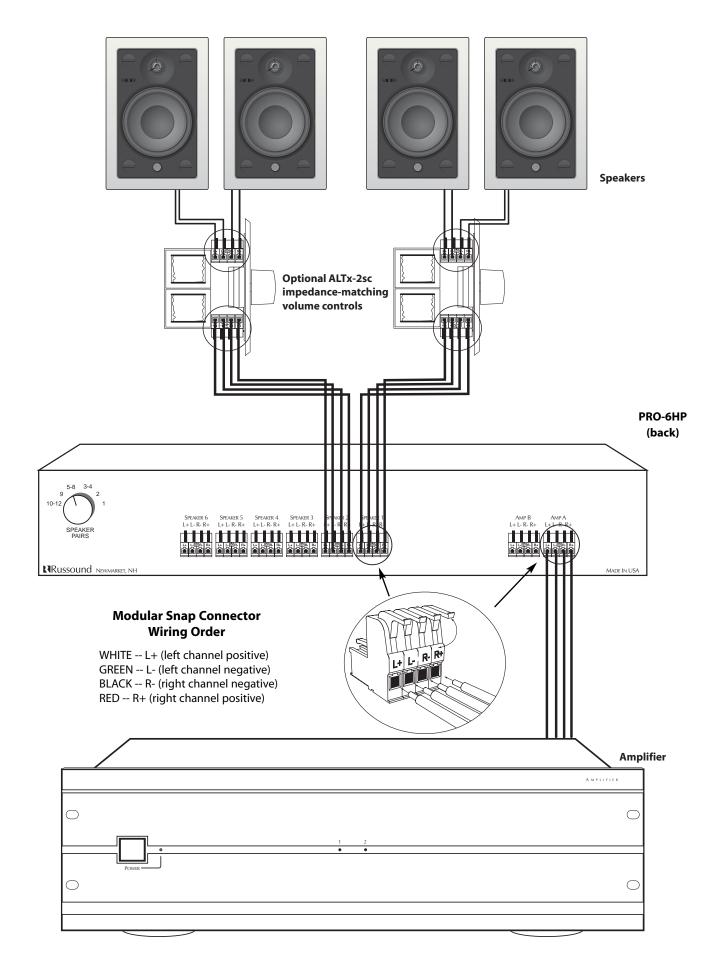
After setting the proper impedance level, the speakers can be turned on and off in any combination.

To switch between the A and B amplifiers, push the AMP A / AMP B button located on the front panel.

**PRO-VC:** The Speaker 1 volume control feature of the PRO-VC allows volume adjustment for the speakers connected to the first (speaker 1) position on the unit. This feature is designed to operate with systems where the main pair of speakers are in the same room as the speaker selector. Set the receiver's volume once, and then adjust the volume in the main room with the PRO-VC. The volume level of the remaining speakers should be adjusted using additional volume controls.

## 4. Setting System Volume

It is important to properly adjust an impedance-matching system to avoid distortion or DC clipping (DC voltage will be produced from an amplifier that is overworked or that has an improper load). These can cause an amplifier/receiver to go into protection, and can cause autoformers on volume controls to heat up, damaging system components. To set up the system, the amplifier/receiver volume should be at its lowest setting, and the in-wall/selector volume control should be at the highest setting. Slowly adjust the amplifier/receiver volume to a level that is acceptable for the amplifier to produce without clipping.



Connection Diagram for Russound PRO-HP and PRO-VC Speaker Selectors (Not to scale)

Power:100 watts per channel RMS continuous<br/>200 watts per channel average<br/>300 watts per channel peakVolume Control:42 dB attenuation, 12 positionsImpedance Matching:High-efficiency impedance-matching autoformersLow-Frequency Protection:Bi-polar capacitor circuitWire Size:up to 14 gauge wireDimensions:17" W x 2 7/8" H x 8" DWeight PRO:10 lbWeight PRO-VC:11 lb

## 6. Optional Accessories

Volume Controls - ALTx Series, LPTx Series, and WALTx-2 for outdoor applications

## 7. Warranty

The Russound PRO and PRO-VC Series are fully guaranteed for Ten (10) years from the date of purchase against all defects in materials and workmanship. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases, the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Russound sells product only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.



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